District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ase Notific	cation	and Co	rrective A	ction				
						OPERA'	ΓOR	[Initia	al Report	\boxtimes	Final Report
		ConocoPhilli				Contact Lis				-		
		Street, Fari		NM 87402			No. 505-326-97	86				-
Facility Nar	ne San J	uan 28-7 Ur	nit 268]	Facility Typ	e Gas Well	·				
Surface Ow	nor DIM			Mineral C)wnor 1	Fodoral			A DI No	. 30039233	356	
Surface Ow	ner DL ivi			Milleral C	JWHEI 1	reuerai			SF-078		330	
				l					SF-0/0	040		
						OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	1	South Line	Feet from the	1	est Line	County		
N	19	27N	07W	1080'	So	outh	1625'	W	est	Rio Ar	riba	
			Lati	tude36.554	118	_ Longitude	-107.61955			-		
NATURE OF RELEASE												
	Type of Release: Unknown Historic contamination						Release 300 yds	s	Volume F	Recovered .	300yds	i
Source of Release Associated with BGT closure at location							lour of Occurrenc	,		Hour of Disc	covery	
Was Immedia	ta Notica (Tiven?				Unknown If YES, To	Whom?		07/26/201	12		
was minicula	ne rvonce e		Yes 🗌	No Not Re	equired	N/A	Wilom:					
By Whom?	N/A				·	Date and F	Iour N/A					
Was a Watero		ched?					olume Impacting t	he Water	course.			
			Yes 🖂	No		.N/A	1 3					
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*				***************************************			CVD APR	12:1	a
N/A		•	·							DIL CONS DIST.	. DIV	
		em and Remed associated w		Taken.* Below Grade T	ank at l	location.						
soil was tran Excavation t acton levels a	tamination sported to erminated and approv	was discover IEI Land Far at Sandstone yed to back fil	red with BO rm. 300 c/ c. Februar ll by NMO	GT removal. For yds of clean soil y 26 th , Potassius CD.	l was tra m perma	insported fro anganate wa	omplete excavation om Aztec Machir s applied, resam	ne Comp pled Feb	any and p ruary 27 ^t	olaced in exc h with levels	cavatio below	n site. NMOCD
regulations al public health should their o	I operators or the envir perations h nment. In a	are required to ronment. The ave failed to a ddition, NMO	elease no ort by the emediate	to the best of my knowledge and understand that pursuant to NMOCD rules and se notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability diate contamination that pose a threat to ground water, surface water, human health out does not relieve the operator of responsibility for compliance with any other						danger liability nan health		
, 0 , 1, 1, _							OIL CONS	SERVA	ATION	DIVISIO	N	
Signature:									۸ - ۱	$1 \wedge 3$	2 a ll	
Printed Name	: Lisa M	l. Hunter			A	Approved by	Environmental S _I	pecialist:	your	the	lly	
Title: Field	Environme	ental Speciali:	st		1	Approval Dat	e: 5/21/2013	3 E	V xpiration I	Date:	J	
E-mail Addre	ss: Lisa.I	Hunter@cop.	com	.		Conditions of	Approval:			Attached		
Date: Ap	ril 10, 2013	3	Phone	: 505-326-9786	5		•					

* Attach Additional Sheets If Necessary

nJR1314148570

April 2, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-4 5525 Hwy 64 Farmington, New Mexico 87401



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

RE: Initial Release Assessment and Final Excavation Report

San Juan 28-7 #268
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On July 26, 2012, and February 19 and 27, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-7 #268, located in Rio Arriba County, New Mexico. A below grade tank (BGT) closure and initial release assessment were completed on July 26, 2012 at the location. Activities related to the BGT closure conducted on July 26, 2012, were documented in the AES report San Juan 28-7 #268 BGT Closure and Release Report dated August 31, 2012. The historical release was reported to be associated with the former BGT at the location. The final excavation was completed by CoP contractors prior to AES' arrival to the location on February 19, 2013. Following application of potassium permanganate to the excavation, a final confirmation sample was collected from the base of the excavation on February 27, 2013.

1.0 Site Information

1.1 Location

Location - SE¼ SW¼, Section 19, T27N, R7W, Rio Arriba County, New Mexico Well Head Latitude/Longitude - N36.55424 and W107.62003, respectively Release Location Latitude/Longitude - N36.55420 and W107.61995, respectively Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no prior ranking information was located. The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet below ground surface (bgs). An unnamed wash is located approximately 600 feet northwest of the location and drains to Cuervo Canyon. Based on this information, the location was assessed a ranking score of 10 per the NMOCD Guidelines for Leaks, Spills, and Releases (1993).

1.3 Assessment

AES was initially contacted by Doyle Clark, CoP representative, on July 25, 2012, and the same day, Deborah Watson and Corwin Lameman of AES completed the BGT closure and release assessment field work. The assessment included collection and field screening of 26 soil samples from nine test holes (TH-1 through TH-9). Based on the field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On February 19, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The final excavation was approximately 32.5 feet by 29 feet by 7.5 to 8 feet in depth. The depth of the excavation was limited by a competent sandstone layer present at about 7.5 to 8 feet bgs. Based on the field screening and laboratory analytical results from the base of the excavation, BLM and NMOCD requested application of potassium permanganate to the base of the excavation followed by collection of a confirmation soil sample (SC-6). The confirmation sample (SC-6) was collected from the base of the excavation on February 27, 2013. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

A total of 26 soil samples (TH-1 through TH-9) and 6 composite samples (SC-1 through SC-6) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two of the soil samples (TH-4 and TH-8) collected during the initial assessment and two composite samples (SC-5 and SC-6) collected during the excavation were submitted for confirmation laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B or 8260B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

On July 26, 2012, initial assessment field screening readings for VOCs via OVM ranged from 4.0 ppm in TH-8 and TH-9 up to 2,450 ppm in TH-5. Field TPH concentrations ranged from 147 mg/kg in TH-6 up to greater than 5,000 mg/kg in TH-1.

On February 19 and 27, 2013, final excavation field screening results for VOCs via OVM ranged from 1.3 ppm in SC-4 to 2,075 ppm in SC-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-1 through SC-4 up to 5,140 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results
San Juan 28-7 #268 Release Assessment and Final Excavation
July 2012 and February 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMO	CD Action Lev	el*	100	1,000
TH-1	7/26/12	6	1,891	>5,000
		0.5	24.2	NA
TH-2	7/26/12	4	330	217
		5.5	6.2	NA
		0.5	27.2	NA
TH-3	7/26/12	3.5	87.2	318
	•	5.75	15.4	NA
		0.5	16.4	NA
TH-4	7/26/12	3.5	68.8	160
•		6	1,672	972
		0.5	7.3	NA
TH-5	7/26/12 ·	3.5	284	247
111-5	7/20/12	6	2,380	NA
		7	2,450	3,890
	_	0.5	7.9	NA .
TH-6	7/26/12	3.25	137	147
		6	215	166
		0.5	6.8	NA
TH-7	7/26/12	3.5	153	204
	·	6.25	289	280
		Surface	4.0	NA
TH-8	7/26/12	3.25	475	152
		6.25	42.0	280

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMO	CD Action Lev	el*	100	1,000
		Surface	25.0	NA
TH-9	7/26/12	3	6.1	524
	•	6.25	4.0	171
SC-1	2/19/13	1 to 7.5	58.7	<20.0
SC-2	2/19/13	1 to 8	2.3	<20.0
SC-3	2/19/13	1 to 7.5	37.7	<20.0
SC-4	2/19/13	1 to 8	1.3	<20.0
SC-5	2/19/13	7.5 to 8	2,075	5,140
SC-6	2/27/13	7.5 to 8	472	212

NA – Not Analyzed

Laboratory analyses for TH-4 and TH-8 were used to confirm field screening results from the initial assessment. Benzene concentrations in TH-4 and TH-8 were reported at less than 0.50 mg/kg and 0.050 mg/kg, respectively. Total BTEX concentrations were reported below laboratory detection limits, and TPH concentrations (as GRO/DRO) were reported at 1, 190 mg/kg in TH-4.

Laboratory analytical results for SC-5 and SC-6 were used to confirm field screening results during excavation activities. Benzene concentrations were 289 mg/kg in SC-5 and 5.6 mg/kg in SC-6, and total BTEX concentrations were reported at 289 mg/kg (SC-5) and 5.6 mg/kg (SC-6). TPH concentrations (as GRO/DRO) were reported at 7,500 mg/kg and 444 mg/kg in SC-5 and SC-6, respectively. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

^{*}Action level determined by the NMOCD ranking score per *NMOCD Guidelines* for Leaks, Spills, and Releases (August 1993)

Table 2. Laboratory Analytical Results – Benzene, Total BTEX and TPH San Juan 28-7 #268 Release Assessment and Final Excavation July 2012 and February 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	
NMO	CD Action Le	vel*	10	50	1,000		
TH-4	7/26/12	6	<0.50	<2.5	610	580	
TH-8	7/26/12	3.25	<0.050	<0.25	NA	NA	
SC-5	2/19/13	7.5 to 8	0.55	289	5,600	1,900	
SC-6	2/27/13	7.5 to 8	<0.50	5.6	410	34	

^{*}Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On July 26, 2012, AES conducted an initial assessment of a historical release from the former BGT tank at the San Juan 28-7 #268. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 10. Field screening showed concentrations above the NMOCD action levels of 100 ppm VOCs and 100 mg/kg TPH in TH-1, TH-2, and TH-4 through TH-8. The highest VOC concentration was recorded as 2,450 ppm in TH-5, and the highest TPH concentration was reported in TH-1 with greater than 5,000 mg/kg.

Laboratory analytical results from July 26, 2012, reported benzene and total BTEX concentrations below the applicable NMOCD action levels in TH-4 and TH-8. TPH concentrations as GRO/DRO in TH-4 exceeded the NMOCD action level with 1,190 mg/kg.

On February 19, 2013, final assessment of the excavation area was completed. Field screening results of the excavation showed that VOC and TPH concentrations were reported below applicable NMOCD action levels for all of the final four walls of the excavation. However, field screening of the base (SC-5) exceeded the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH with 2,075 ppm and 5,140 mg/kg, respectively. Laboratory analytical results confirmed that concentrations exceeded the NMOCD action levels with concentrations of total BTEX reported at 289 mg/kg and TPH (GRO/DRO) reported at 7,500 mg/kg.

Because of the presence of competent sandstone at the site, the base of the excavation was not extended beyond 8 feet bgs. At the request of Mark Kelly, BLM, and Brandon

Powell, NMOCD, potassium permanganate was applied to the base of the excavation on February 26, 2013. Composite sample SC-6 was collected from the base on February 27, 2013. Field and laboratory analytical results reported VOCs, TPH, benzene, and total BTEX below applicable NMOCD action levels in SC-6. Approval to backfill was granted by Brandon Powell of NMOCD on March 3, 2013. No further work is recommended for the release area at the San Juan 28-7 #268.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

Heather M. Woods

Heather M Woods

Staff Geologist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

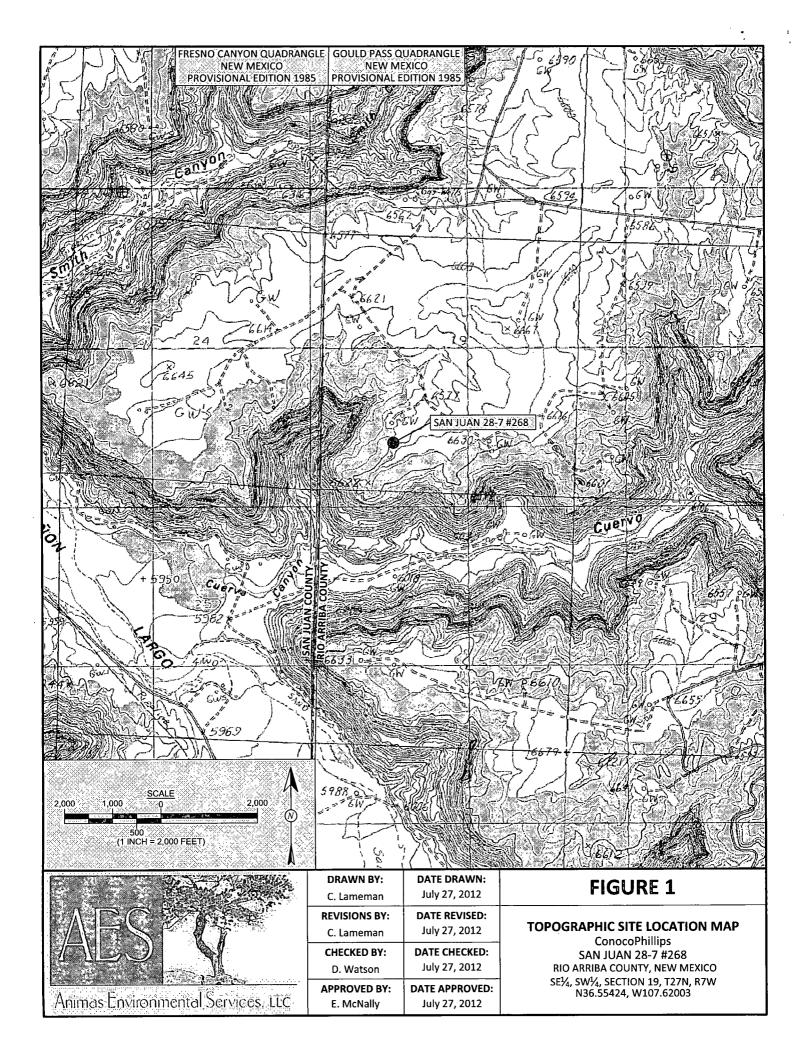
Figure 3. Initial Assessment Sample Locations and Results, July 2012

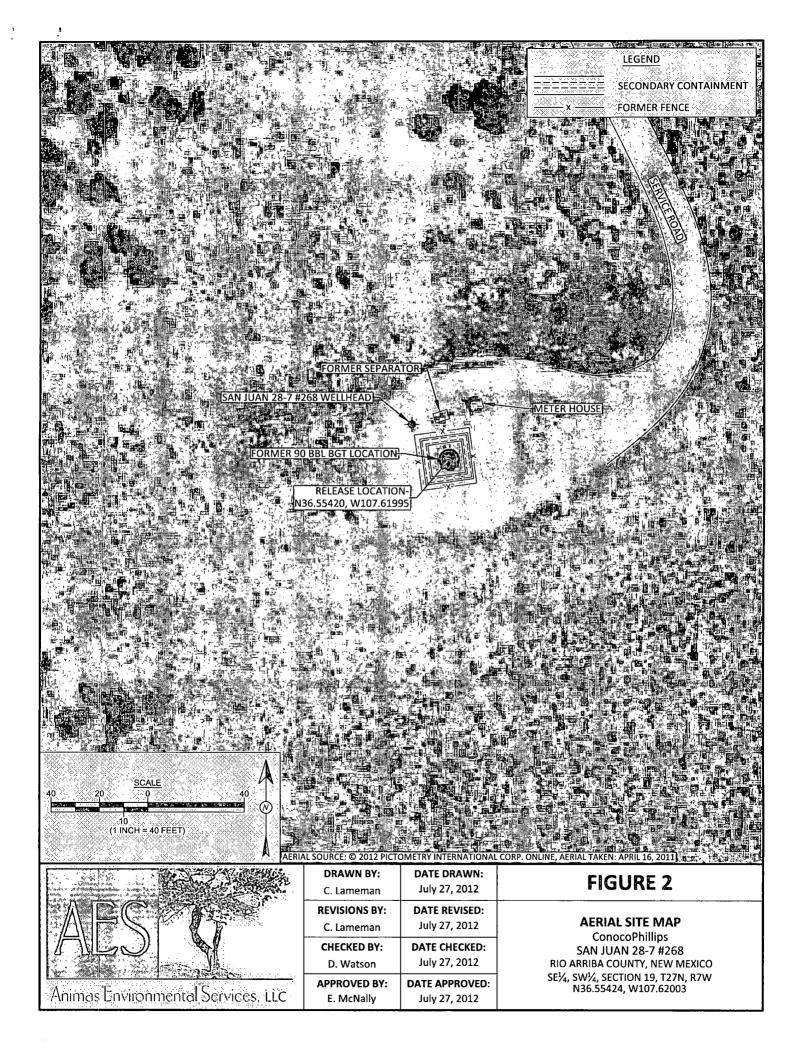
Figure 4. Final Excavation Sample Locations and Results, February 2013

AES Field Screening Report 072612, 021913, and 022713

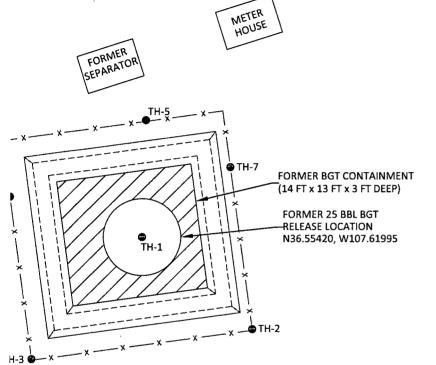
Hall Laboratory Analytical Reports 1207B98, 1207C51, 13026647, and 1302916

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TH-6

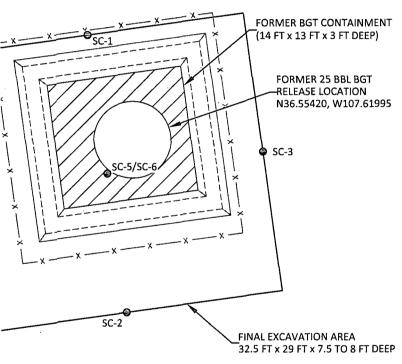


	Field S	creening R	esults		
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)	
NMOC	D ACTION L	VEL	100	1,000	
TH-1	7/26/12	6	1,891	>5,000	
		0.5	24.2	NA	
TH-2	7/26/12	4	330	217	
		5.5	6.2	NA	
		0.5	27.2	NA	
TH-3	7/26/12	3.5	87.2	318	
		5.75	15.4	NA	
		0.5	16.4	NA	
TH-4	7/26/12	3.5	68.8	160	
		6	1,672	972	
		0.5	7.3	NA	
TH-5	7/26/12	3.5	284	247	
ј 1П-5	7/26/12	6	2,380	NA	
,		7	2,450	3,890	
		0.5	7.9	NA	
TH-6	7/26/12	3.25	137	147	
		- 6	215	166	
		0.5	6.8	NA	
TH-7	7/26/12	3.5	153	204	
		6.25	289	280	
		Surface	4.0	NA	
TH-8	7/26/12	3.25	475	152	
		6.25	42.0	280	
		Surface	25.0	NA	
TH-9	7/26/12	3	6.1	524	
		6.25	4.0	171	
NA - NOT AN	ALYZED		•		

Laboratory Analytical Results										
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)				
NMOCD ACTION LEVEL			10	50	1,000					
TH-4	7/26/12	6	<0.50	<2.5	610	580				
TH-8	7/26/12	3.25	<0.050	<0.25	NA	NA				

TH-4 WAS ANALYZED PER EPA METHOD 8260B AND 8015B. TH-8 WAS





	Field S	Field Screening Results											
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)									
NMOC	D ACTION L	100	1,000										
SC-1	2/19/13	1 to 7.5	58.7	<20.0									
SC-2	2/19/13	1 to 8	2.3	<20.0									
SC-3	2/19/13	1 to 7.5	37.7	<20.0									
SC-4	2/19/13	1 to 8	1.3	<20.0									
SC-5	2/19/13	7.5 to 8	2,075	5,140									
SC-6	2/27/13	7.5 to 8	472	212									

Laboratory Analytical Results											
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)					
NMOCD ACTION LEVEL			10	50	1,000						
SC-5	2/19/13	7.5 to 8	0.55	289	5,600	1,900					
SC-6	2/27/13	7.5 to 8	<0.50	5.6	410	34					

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 28-7 #268

Date: 7/26/2012

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

	iviati ix.								
Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
TH-1 @ 6'	7/26/2013	11:05	1,891	13:52	>5,000	40.0	1	DAW	
TH-2 @ 0.5'	7/26/2013	12:10	24.2		Not A	nalyzed for T	РН		
TH-2 @ 4'	7/26/2013	11:08	330	13:43	217	40.0	1	DAW	
TH-2 @ 5.5'	7/26/2013	11:10	6.2		Not A	nalyzed for T	РН		
TH-3 @ 0.5'	7/26/2013	12:14	27.2		Not A	nalyzed for T	РН		
TH-3 @ 3.5'	7/26/2013	1:12	87.2	13:41	318	40.0	1	DAW	
TH-3 @ 5.75'	7/26/2013	11:15	15.4	Not Analyzed for TPH					
TH-4 @ 0.5'	7/26/2013	12:18	16.4	Not Analyzed for TPH					
TH-4 @ 3.5'	7/26/2013	11:23	68.8	13:29	160	40.0	1	DAW	
TH-4 @ 6'	7/26/2013	11:25	1,672	13:32	972	40.0	1	DAW	
TH-5 @ 0.5'	7/26/2013	12:22	7.3		Not A	nalyzed for T	РН		
TH-5 @ 3.5'	7/26/2013	11:30	284	13:45	247	40.0	1	DAW	
TH-5 @ 6'	7/26/2013	11:34	2,380		Not A	nalyzed for T	<i>РН</i>		
TH-5 @ 7'	7/26/2013	11:35	2,450	13:47	3,890	40.0	1	DAW	
TH-6 @ 0.5'	7/26/2013	12:26	7.9		Not A	nalyzed for T	РН		
TH-6 @ 3.25'	7/26/2013	11:37	137	13:16	147	40.0	1	DAW	
TH-6 @ 6'	7/26/2013	11:40	215	13:19	166	40.0	1	DAW	
TH-7 @ 0.5'	7/26/2013	12:30	6.8		Not A	nalyzed for T	РН		
TH-7 @ 3.5'	7/26/2013	11:43	153	13:22	204	40.0	1	DAW	
TH-7 @ 6.25'	7/26/2013	11:48	289	13:26	280	40.0	1	DAW	
TH-8 @ Surface	7/26/2013	12:35	4.0		Not A	nalyzed for T	ΡΗ		
TH-8 @ 3.25'	7/26/2013	11:52	475	13:35	152	40.0	1	DAW	

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
TH-8 @ 6.25'	7/26/2013	11:55	42.0	13:38	280	40.0	1	DAW	
TH-9 @ Surface	7/26/2013	14:08	25.0	Not Analyzed for TPH					
TH-9 @ 3'	7/26/2013	14:02	6.1	14:22	524	40.0	1	DAW	
TH-9 @ 6.25'	7/26/2013	14:05	4.0	14:24	171	40.0	1	DAW	

Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

Report Finalized: 07/26/12

Debrah Water_

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 28-7 #268

Date: 2/19/2013

Matrix: Soil



Animas Environmental Services, LLC

Heather M Woods

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	2/19/2013	8:35	North Wall	58.7	9:19	<20.0	20.0	1	HMW
SC-2	2/19/2013	8:37	South Wall	2.3	9:21	<20.0	20.0	1	HMW
SC-3	2/19/2013	8:40	East Wall	37.7	9:23	<20.0	200	1	HMW
SC-4	2/19/2013	8:42	West Wall	. 1.3	9:26	<20.0	20.0	1	HMW
SC-5	2/19/2013	8:45	Base	2,075	9:28	5,140	40.0	1	HMW

Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

ИD

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 28-7 #268

Date: 2/27/2013

Matrix: Soil



Animas Environmental Services, LLC

Debrah Water

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	2/27/2013	8:50	Base	472	9:20	212	20.0	1	DAW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor
NA Not Analyzed

Analyst:



Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

August 03, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 486-1776 FAX (505) 324-2022

RE: COP San Juan 28-7 #26 8 OrderNo.: 1207B98

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/27/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1207B98

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TH-8 @ 3'4"

Project: COP San Juan 28-7 #26 8

Collection Date: 7/26/2012 11:52:00 AM

Lab ID: 1207B98-001

Matrix: MEOH (SOIL) Received Date

Received Date: 7/27/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	7/27/2012 2:21:20 PM
Toluene	ND	0.050	mg/Kg	1	7/27/2012 2:21:20 PM
Ethylbenzene	ND	0.050	mg/Kg	1	7/27/2012 2:21:20 PM
Xylenes, Total	ND	0.10	mg/Kg	1	7/27/2012 2:21:20 PM
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	7/27/2012 2:21:20 PM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207B98

03-Aug-12

Client:

Animas Environmental Services

Project:

COP San Juan 28-7 #26 8

Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tiles					
Client ID: PBS	Batch	1D: R4	472	F						
Prep Date:	Analysis E	ate: 7 /	27/2012	\$	SeqNo: 1	25498	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 100NG BTEX LC	C S Sam _i	pType: LC	S	Tes							
Client ID: LCSS	Bat	ich ID: R4	472	F							
Prep Date:	Analysis	Date: 7/	27/2012	5	SeqNo: 1	25499	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.050	1.000	0	95.9	76.3	117				
Toluene	0.97	0.050	1.000	0	97.0	80	120				
Ethylbenzene	0.98	0.050	1.000	0	98.3	77	116				
Xylenes, Total	3.0	0.10	3.000	0	99.1	76.7	117				
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120				

Qualifiers:

R RPD outside accepted recovery limits

RL Reporting Detection Limit

Page 2 of 2

^{*/}X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410',

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1207B98 Received by/date: Logged By: **Ashley Gallegos** 7/27/2012 10:00:00 AM 7/27/2012 10:06:56 AM Completed By: **Ashley Gallegos** Reviewed By: Chain of Custody Not Present 1 Were seals intact? Yes No 🗌 Yes 🔽 No 🗌 Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In Yes 🔽 No 🗌 NA 🗌 4 Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗍 5. Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗔 6. Were all samples received at a temperature of >0° C to 6.0°C Yes ✓ No 🗌 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9 Are samples (except VOA and ONG) properly preserved? NA \square Yes No V 10 Was preservative added to bottles? Yes 🗌 No 🔲 No VOA Vials 🗹 11. VOA vials have zero headspace? Yes No 🗸 12. Were any sample containers received broken? # of preserved Yes 🔽 No 🗌 13 Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗌 (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Yes 📝 No 🗌 Adjusted? 15. Is it clear what analyses were requested? Yes 🗸 No 🗌 16 Were all holding times able to be met? (If no, notify customer for authorization.) Checked by Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No 🗆 NA 🗸 Person Notified: Date: By Whom: Via: ☐ eMail Phone Fax In Person Regarding: Client Instructions: 18 Additional remarks: 19 Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Good Yes

C	hain-	-of-Cu	stody Record	Turn-Around	Time:									RIV.	/ T F	. ~		.aei	AUTT (
Client:	Anima	15 Env	wonmental	☐ Standard	Rush	<u>Same day</u> 8-7 #268				A	N	AL	.Y§	SIS	S L	A.	30	MEI RA			
7.4-11:	servi	cos V	LC. E Comanche	1000		0 7 40,0				,	www	/.hal	llenv	ironi	meni	tal.co	om				
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QA/QC I	Package: dard		☐ Level 4 (Full Validation)	R. Kenn	emer		\$ (8021)	+ TPH (Gas or	(Gas/Diesel)					PO ₄ ,SC	PCB's						
Accredi				Sampler:	Watson	<u> </u>	任	표	3 (G		=			O ₂	/ 8082						-
□ NEL	AP	□ Othe	r	On toe	XYes	III. No Service		=	15	18	4.	A		3,5	s / 8		₹		1		ع ا
□ EDD	(Type)_			Sample Tem	pelature:	D // 1888		띪	18 p	4 b	2d 5	P	tals	Ž.	ides	7					>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	Meritina in the second	BTEX + ME	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles
1-26-12	1152	Soil	TH-8@3'4"	1402 Meoth	- MeOH	-001	X														
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Date:	Time:	Relinquishe	h Water	Received by: Received by:	Muceley	Date Time	- Ren	narks	s: Py	W !	ьC	lspub	cof	'hil	lip	O					
ulr	1751	Thris	tu Wolles nitted to Hall Environmental may be subc	M.	dre-	L01/27/12	is nossit		Anv cu	h-ccs+		data	will be	oloor!	u note	tod or	the e-	ash dissair:			. · —



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 07, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 486-1776 FAX: (505) 324-2022

RE: COP SJ 28-7 #268 OrderNo.: 1207C51

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/28/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1207C51

Date Reported: 8/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TH-4@6' Collection Date: 7/26/2012 11:25:00 AM

Project: COP SJ 28-7 #268 Lab ID: 1207C51-001

Matrix: MEOH (SOIL) Received Date: 7/28/2012 12:00:00 PM

Result	RL (Qual	Units	DF	Date Analyzed
IGE ORGANICS					Analyst: JMP
580	10		mg/Kg	1	7/30/2012 11:56:09 AM
118	77.6-140		%REC	1	7/30/2012 11:56:09 AM
SHORT LIST					Analyst: RAA
ND	0.50		mg/Kg	10	7/30/2012 3:07:04 PM
ND	0.50		mg/Kg	10	7/30/2012 3:07:04 PM
ND	0.50		mg/Kg	10	7/30/2012 3:07:04 PM
ND	1.0		mg/Kg	10	7/30/2012 3:07:04 PM
83.0	70-130		%REC	10	7/30/2012 3:07:04 PM
167	70-130	S	%REC	10	7/30/2012 3:07:04 PM
77.8	70-130		%REC	10	7/30/2012 3:07:04 PM
85.2	70-130		%REC	10	7/30/2012 3:07:04 PM
INE RANGE					Analyst: RAA
610	50		mg/Kg	10	7/30/2012 3:07:04 PM
167	70-130	S	%REC	10	7/30/2012 3:07:04 PM
	580 118 SHORT LIST ND ND ND 83.0 167 77.8 85.2 LINE RANGE	580 10 118 77.6-140 SHORT LIST ND 0.50 ND 0.50 ND 1.0 83.0 70-130 167 70-130 77.8 70-130 85.2 70-130 LINE RANGE 610 50	580 10 118 77.6-140 SHORT LIST ND 0.50 ND 0.50 ND 0.50 ND 1.0 83.0 70-130 167 70-130 S 77.8 70-130 85.2 70-130 LINE RANGE 610 50	580 10 mg/Kg 118 77.6-140 %REC SHORT LIST ND 0.50 mg/Kg ND 0.50 mg/Kg ND 0.50 mg/Kg ND 1.0 mg/Kg ND 1.0 mg/Kg 83.0 70-130 %REC 167 70-130 \$ %REC 77.8 70-130 %REC 85.2 70-130 %REC LINE RANGE 610 50 mg/Kg	580 10 mg/Kg 1 118 77.6-140 %REC 1 SHORT LIST ND 0.50 mg/Kg 10 ND 0.50 mg/Kg 10 ND 0.50 mg/Kg 10 ND 1.0 mg/Kg 10 83.0 70-130 %REC 10 167 70-130 S %REC 10 77.8 70-130 %REC 10 85.2 70-130 %REC 10 LINE RANGE 610 50 mg/Kg 10

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RLReporting Detection Limit
- Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C51

07-Aug-12

Client:

Animas Environmental Services

Project: COP S	J 28-7 #268	
Sample ID: MB-3074	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 3074	RunNo: 4495
Prep Date: 7/27/2012	Analysis Date: 7/30/2012	SeqNo: 126019 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Surr: DNOP	9.7 10.00	96.8 77.6 140
Sample ID: LCS-3074	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 3074	RunNo: 4495
Prep Date: 7/27/2012	Analysis Date: 7/30/2012	SeqNo: 126020 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Surr: DNOP	4.0 5.000	80.6 77.6 140
Sample ID: MB-3088	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: PBS	Batch ID: 3088	RunNo: 4495
Prep Date: 7/30/2012	Analysis Date: 7/30/2012	SeqNo: 126084 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Diesel Range Organics (DRO)	ND 10	
Surr: DNOP	9.5 10.00	95.4 77.6 140
Sample ID: LCS-3088	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics
Client ID: LCSS	Batch ID: 3088	RunNo: 4495
Prep Date: 7/30/2012	Analysis Date: 7/30/2012	SeqNo: 126126 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Diesel Range Organics (DRO)	35 10 50.00	
Surr: DNOP	4.0 5.000	79.8 77.6 140

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

R RPD outside accepted recovery limits В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

RL Reporting Detection Limit Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C51

07-Aug-12

Client: Animas Environmental Services

Project: COP SJ 28-7 #268

Sample ID: b2	Samp1	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batc	h ID: R4	514	F	RunNo: 4						
Prep Date:	Analysis [Date: 7 /	30/2012	\$	SeqNo: 1	27896	Units: mg/K				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050	· · ·								
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.8	70	130				
Surr: 4-Bromofluorobenzene	0.40		0.5000		80.5	70	130				
Surr: Dibromofluoromethane	0.39		0.5000		78.8	70	130				
Surr: Toluene-d8	0.41		0.5000		81.2	70	130				

Sample ID: 100ng Ics	Samp	Гуре: LC	S	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batc	h ID: R4	514	F	RunNo: 4						
Prep Date:	Analysis [Date: 7/	30/2012	8	SeqNo: 1	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.97	0.050	1.000	0	97.0	70.7	123				
Toluene	1.0	0.050	1.000	0	102	80	120				
Surr: 1,2-Dichloroethane-d4	0.42		0.5000	•	83.1	70	. 130				
Surr: 4-Bromofluorobenzene	0.41		0.5000		81.7	70	130				
Surr: Dibromofluoromethane	0.38		0.5000		76.8	70	130				
Surr: Toluene-d8	0.41		0.5000		82.4	70	130				

Sample ID: 1207c51-001ams	SampT	ype: MS	S	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: TH-4@6'	Batch	n ID: R4	514	F	RunNo: 4	514					
Prep Date:	Analysis D	ate: 7/	30/2012		SeqNo: 1	27898	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	6.7	0.50	7.145	0	93.1	81.3	119				
Toluene	7.1	0.50	7.145	0	98.8	75	121				
Surr: 1,2-Dichloroethane-d4	3.1		3.573		87.5	70	130				
Surr: 4-Bromofluorobenzene	5.1		3.573		143	70	130			S	
Surr: Dibromofluoromethane	2.9		3.573		81.4	70	130				
Surr: Toluene-d8	2.9		3.573		80.7	70	130				

Sample ID: 1207c51-001ams	s Sampī	ype: MS	SD	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: TH-4@6'	Batcl	n ID: R4	514	F	RunNo: 4	514					
Prep Date:	Analysis D	Date: 7 /	30/2012	\$	SeqNo: 1	27899	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	6.5	0.50	7.145	0	91.5	81.3	119	1.68	15.7		
Toluene	7.5	0.50	7.145	0	105	75	121	6.31	16.2		
Surr: 1,2-Dichloroethane-d4	2.8		3.573		79.7	70	130	0	0		
Surr: 4-Bromofluorobenzene	4.9		3.573		137	70	130	0	0	S	

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 3 of 5

^{*/}X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C51 07-Aug-12

Client:

Animas Environmental Services

Project:

COP SJ 28-7 #268

Sample ID: 1207c51-001amsd

TestCode: EPA Method 8260B: Volatiles Short List

Client ID: TH-4@6'

SampType: MSD Batch ID: R4514

RunNo: 4514

Units: ma/Ka

Prep Date:	Analysis D	ate: 7/	30/2012	S	SeqNo: 1	27899	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	2.8		3.573		77.9	70	130	0	0	
Surr: Toluene-d8	2.9		3.573		82.3	70	130	0	0	

Qualifiers:

RPD outside accepted recovery limits

Reporting Detection Limit

Page 4 of 5

Value exceeds Maximum Contaminant Level. */X

E Value above quantitation range

Analyte detected below quantitation limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207C51

07-Aug-12

Client:

Animas Environmental Services

Result

720

5000

PQL

50

SPK value SPK Ref Val

605.9

178.6

3572

Project:

COP SJ 28-7 #268

Sample ID: b2	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B Mod:	Gasoline	Range	
Client ID: PB\$	Batch	n ID: R4	514	F	RunNo: 4	514				
Prep Date:	Analysis D	ate: 7/	30/2012	S	eqNo: 1	27882	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0			٠.					
Surr: BFB	400		500.0		80.5	70	130			
Sample ID: 2.5ug Ics	SampT	ype: LC	s	Tes	Code: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: R4	514	F	RunNo: 4	514				
Prep Date:	Analysis D	ate: 7/	30/2012	S	SeqNo: 1	27884	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	85	115			
Surr: BFB	400		500.0		79.9	70	130			
Sample ID: 1207c51-001am	sg SampT	ype: M \$	 }	Tes	Code: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID: TH-4@6'	Batch	1D: R4	514	F	RunNo: 4	514				
Prep Date:	Analysis D	ate: 7 /	30/2012	S	SeqNo: 1	27885	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	770	50	178.6	605.9	92.6	70	130			
Surr: BFB	5800		3572		161	70	130	•		S
Sample ID: 1207c51-001am	sdg SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID: TH-4@6'	Batch	n ID: R4	514	F	RunNo: 4	514				
Prep Date:	Analysis D	ate: 7/	30/2012	5	SeqNo: 1	27886	Units: mg/K	(g		

Out	əli i	fie	re

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

%REC

62.4

140

LowLimit

70

70

HighLimit

130

130

RL Reporting Detection Limit

Page 5 of 5

%RPD

7.25

0

RPDLimit

20

0

Qual

S

S

HALL ENVIRG MENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1207C51 Received by/date: 7/28/2012 12:00:00 PM Logged By: **Lindsay Mangin** Completed By: **Lindsay Mangin** 7/30/2012 7:32:29 AM A-07/30/12 Reviewed By: Chain of Custody Yes No 🗆 Not Present 1. Were seals intact? Yes 🗸 No 🗌 2. Is Chain of Custody complete? Not Present 3. How was the sample delivered? Courier Log In Yes 🗹 No 🗌 NA 🗆 4 Coolers are present? (see 19. for cooler specific information) Yes 🗸 No 🗌 5. Was an attempt made to cool the samples? Yes 🗹 No 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes 🗹 No 🗌 8 Sufficient sample volume for indicated test(s)? Yes 🗹 No 🗌 9. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes 🗌 No 🗹 10. Was preservative added to bottles? Yes No No VOA Vials 11 VOA vials have zero headspace? Yes U No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗌 13 Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Yes V No Adjusted? 15. Is it clear what analyses were requested? Yes 🗸 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) NA 🛂 17 Was client notified of all discrepancies with this order? Yes U No U Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date 3.2 Yes Good

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Chain-of-Custody Record Client: Animus Environmental Service UC Mailing Address: \$24 6 Commune	Armungton N Hone #: 505 564	Fax#: 'ackage:	ation \P	(Type)_	Time	1125									Time:	01[]
Client: Antimus Environmental Services CCC	Phone #:	email or Fax#: QA/QC Package:	Accreditation NELAP	☐ EDD (Type)	Date	1-78-12										2/12/



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1302647

February 26, 2013

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071

FAX

RE: CoP San Juan 28-7 #268

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/20/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1302647

Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/26/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project:

CoP San Juan 28-7 #268

Collection Date: 2/19/2013 8:45:00 AM

Lab ID:

1302647-001

Matrix: SOIL

Received Date: 2/20/2013 10:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	1900	100		mg/Kg	10	2/25/2013 10:56:45 PM
Surr: DNOP	0	72.4-120	S	%REC	10	2/25/2013 10:56:45 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	5600	1000		mg/Kg	200	2/20/2013 1:14:42 PM
Surr: BFB	233	84-116	s	%REC	200	2/20/2013 1:14:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.55	0.50		mg/Kg	20	2/20/2013 11:19:44 AM
Toluene	18	1.0		mg/Kg	20	2/20/2013 11:19:44 AM
Ethylbenzene	20	1.0		mg/Kg	20	2/20/2013 11:19:44 AM
Xylenes, Total	250	20		mg/Kg	200	2/20/2013 1:14:42 PM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	200	2/20/2013 1:14:42 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302647

26-Feb-13

Client:

Animas Environmental Services

Project:

CoP San Juan 28-7 #268

Project:	CoP San	Juan 28-7 #26	·8 							
Sample ID	MB-6181	SampType	MBLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	PBS	Batch ID:	6181	F	RunNo: 8	746				
Prep Date:	2/20/2013	Analysis Date:	2/20/2013	8	SeqNo: 2	50652	Units: mg/h	(g		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 11	10.00		113	72.4	120			
Sample ID	LCS-6181	SampType	: LCS	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID:	6181	F	RunNo: 8	746				
Prep Date:	2/20/2013	Analysis Date:	2/20/2013	S	SeqNo: 2	50653	Units: mg/k	(g		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	55	10 50.00	0	110	47.4	122			
Surr: DNOP		5.7	5.000		115	72.4	120			
Sample ID	MB-6218	SampType:	MBLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	PBS	Batch ID:	6218	F	RunNo: 8	825				
Prep Date:	2/22/2013	Analysis Date:	2/25/2013	S	SeqNo: 2	52344	Units: %RE	c		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.7	10.00	•	87.4	72.4	120			
Sample ID	LCS-6218	SampType:	: LCS	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID:	6218	F	RunNo: 8	825				
Prep Date:	2/22/2013	Analysis Date:	2/25/2013	S	SeqNo: 2	52345	Units: %RE	c		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.2	5.000		104	72.4	120			
Sample ID	1302682-003AMS	SampType:	MS	Tes	tCode: El	PA Method	8015B: Dies	el Range C	Organics	
Client ID:	BatchQC	Batch ID:	6218	F	RunNo: 8	825		_	_	
Prep Date:	2/22/2013	Analysis Date:	2/25/2013	S	SeqNo: 2	52504	Units: %RE	С		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.2	4.878		86.9	72.4	120			
Sample ID	1302682-003AMSI) SampType:	MSD	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	BatchQC	Batch ID:	6218	F	RunNo: 8	825		-		
Prep Date:	2/22/2013	Analysis Date:	2/25/2013	٠٤	SeqNo: 2	52807	Units: %RE	С		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6	4.808		95.2	72.4	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

- ND Not Detected at the Reporting Limit
- Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302647

26-Feb-13

Client:

Animas Environmental Services

Project:

CoP San Juan 28-7 #268

Project:	CoP San	Juan 28-7 #2	268								
Sample ID	MB-6164	SampTyp	e: ME	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID:	PBS	Batch I	D: R8	3748	F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Dat	e: 2 /	20/2013	S	SeqNo: 2	50906	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 1000	5.0	1000		104	84	116			
Sample ID	LCS-6164	SampTyp	e: LC	 :s	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID:	LCSS	Batch I	D: R8	3748	F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Dat	e: 2 /	/20/2013	S	SeqNo: 2	50907	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	31	5.0	25.00	0	123	62.6	136			••
Surr: BFB		1300		1000		132	84 	116			S
Sample ID	MB-6164	SampTyp	e: MI	BLK	Tes	tCode: El	PA Method	8015B: Gasc	line Rang	е	
Client 1D:	PBS	Batch I	D: 61	64	F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Dat	e: 2 /	/20/2013	8	SeqNo: 2	50910	Units: %RE	C ·		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		104	. 84	116			
Sample ID	LCS-6164	SampTyp	e: LC	:s	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	LCSS	Batch I	D: 61	64	F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Dat	e: 2	/20/2013	5	SeqNo: 2	50911	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1300		1000		132	84	116			S
Sample ID	1302581-001AMS	SampTyp	e: M	s	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	BatchQC	Batch I			F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Dat	e: 2	/20/2013	8	SeqNo: 2	50915	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		985.2		112	84	116			
Sample ID	1302581-001AMSI) SampTyp	oe: M	SD	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	je	
Client ID:	BatchQC	Batch I	D: 61	64	F	RunNo: 8	748				
Prep Date:	2/19/2013	Analysis Da	ie: 2 .	/20/2013	5	SeqNo: 2	50916	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		986.2		113	84	116	0	. 0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302647

26-Feb-13

CI	ien	t:
_		

Animas Environmental Services

CoP San Juan 28-7 #268

Project: CoP San	Juan 28-7	#268								
Sample ID MB-6164	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: R8	3748	F	RunNo: 8	748				
Prep Date: 2/19/2013	Analysis D	ate: 2 /	/20/2013	S	SeqNo: 2	50972	Units: mg/k	ζg		,
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050						-		
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-6164	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: R8	3748	F	RunNo: 8	748				
Prep Date: 2/19/2013	Analysis D	ate: 2/	/20/2013		SeqNo: 2	50973	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	92.1	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120		<u>:</u>	
Sample ID MB-6164	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 61	64	F	RunNo: 8	748				
Prep Date: 2/19/2013	Analysis D	ate: 2/	/20/2013	\$	SeqNo: 2	50976	Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-6164	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 61	64	F	RunNo: 8	748				
Prep Date: 2/19/2013	Analysis D	ate: 2/	/20/2013	5	SeqNo: 2	50977	Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			
Sample ID 1302581-002AMS	SampT	ype: M \$	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: 61	64	F	RunNo: 8	748				
Prep Date: 2/19/2013	Analysis D	ate: 2/	20/2013	5	SeqNo: 2	50983	Units: %RE	c		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0 40 0 1	4.0		0.00-0		440					

Qualifiers:

* Value exceeds Maximum Contaminant Level.

1.0

0.9372

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

B Analyte detected in the associated Method Blank

80

120

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

110

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302647

26-Feb-13

Client:

Animas Environmental Services

Project:

CoP San Juan 28-7 #268

Sample ID 1302581-002AMSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC

SampType: MSD Batch ID: 6164

RunNo: 8748

Prep Date: 2/19/2013 Analysis Date: 2/20/2013

SeqNo: 250984 Units: %REC

Analyte

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Surr: 4-Bromofluorobenzene

108

0.9921

80

1.1

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

Page 5 of 5



man Environmental Analysis Laboratory 4901 Hawkins NL

Albuquerque, NM 87105

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

Client Name: Animas Environmental	4 1 Wo	ork Order Num	ber: 13026	547	
Received by/date: 46	12013				
Logged By: Lindsay Mangin 2/20	0/2013 10:40:00 AM		July Hay	D	:
Completed By: Lindsay Mangin 2/20	0/2013 10:45:18 AM		John John John John John John John John	D D	
Reviewed By:	20/13				
Chain of Custody	i.				
1. Were seals intact2		Yes 🗌 No	☐ No	ot Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹 No		ot Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Coolers are present? (see 19. for cooler specific	information)	Yes 🗹 No		na 🗀	
5. Was an attempt made to cool the samples?		Yes 🗹 No		NA \square	
6. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗹 No		NA \square	
7. Sample(s) in proper container(s)?		Yes 🔽 No			
8. Sufficient sample volume for indicated test(s)?		Yes 🗹 No			
9. Are samples (except VOA and ONG) properly page 1	reserved?	Yes 🗹 No			
10. Was preservative added to bottles?		Yes 🗌 No	~	NA \square	
11. VOA vials have zero headspace?		Yes 🗌 No	□ No \	∕OA Vials 🗹	
12. Were any sample containers received broken?		Yes 🗆 No	\checkmark		
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹 No		# of preserved bottles checked for pH:	
14. Are matrices correctly identified on Chain of Cus	stody?	Yes 🗹 No		(<2	or >12 unless noted)
15. Is it clear what analyses were requested?		Yes 🗹 No		Adjusted?	·
16. Were all holding times able to be met?		Yes 🗹 No			
(If no, notify customer for authorization.)				Checked by:	
Special Handling (if applicable) 17. Was client notified of all discrepancies with this	order?	Yes No		NA 🗹	
Person Notified:	Date:				
By Whom:	Via:]eMail □ P	hone 🔲 F	ax In Person	
Regarding:		,			
Client Instructions:			*****		-
18. Additional remarks:	· · · · · · · · · · · · · · · · · · ·	****			
19. Cooler Information					
Cooler No Temp °C Condition Seal tr	ntact Seal No Se	eal Date	Signed By		
1 1.0 Good Yes					

C	hain	of-Cu	stody Record	Turn-Around	Time:						.			riz.	/TE	20	RIE	M E	AIT	AL	
Client:	Animas	Environ	mental Services	☐ Standard	VZ Rush e:	Same Day	[-	N/	AL	Y	SIS		AE	30			DRY	
Mailing	Address	· 624	E. Comanche	Cap Son	Juan 28	·7 #268		49	01 H									'109			
			67401	Project #:		-7 #268		Te	el. 50)5-34	45-3	975	Ī	Fax	505-	345-	410	7			
	•	-564-7		7		•	20 3			directory.	4.5 . Q	Á	nal	ysis.	Req	ues	7				
email o				Project Mana	iger:			only)	Â												T
	Package:							as or	DRO / WEE)			(S)		Σ,δC	PCB's					-	
Stan	dard		☐ Level 4 (Full Validation)	D. Watson	١		_ ¾	9	8			SIMS)		,P(2 P						
Accred	tation	□ Othe	er	Sampler: H		☑ No		+ TPH (Gas		18.1)	34.1)	8270		3,NO	/ 8082		æ			i i	1
	(Type)			Sample Tem			2.25	Щ.	(GRO	d 4,	d 5(or (tals	N.	des	~	0			ŀ	>
Date	Time	Matrix	Sample Request ID		Preservative Type	HEAL NO.	BTEX +	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubblee
2/19/13	845	So:1	5c-5	MeOH KIT 4-02	MebH	-001	X	-	×	•_											
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2/19/13 Date: 2/19/13	1458 Time:	Relinquish	the M. Woods	Received by:	in Walt	Date Time	5 W	o.9 rea ctiv	221	53	D			54	pir er:	nsor KG	· M AR · E1	ا : ب دو ۱ : ۱ هم ۱ : ۲ د ک	Smi m:'	ith th	٤.*
117113	necessary,	samples sub	mitted to Hall Environmental may be subo	contracted to other a	ccredited/aboratorio	- 1 - 1	his poss	ibility.	Any si	ub-con	tracte	d data	will be	e clear							



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 01, 2013

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071

FAX

RE: CoP SJ 28-7 #268 OrderNo.: 1302916

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/28/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1302916

Date Reported: 3/1/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

CoP SJ 28-7 #268

1302916-001

Project:

Lab ID:

Matrix: MEOH (SOIL)

Client Sample ID: SC-6

Collection Date: 2/27/2013 8:50:00 AM Received Date: 2/28/2013 9:59:00 AM

Analyses	Result	RL (Qual U	nits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	34	9.8	r	ng/Kg	1	2/28/2013 1:22:00 PM
Surr: DNOP	109	72.4-120	9	%REC	1	2/28/2013 1:22:00 PM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	410	100	r	ng/Kg	20	2/28/2013 12:11:40 PM
Surr: BFB	256	84-116	s 9	%REC	20	2/28/2013 12:11:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50	r	ng/Kg	20	2/28/2013 12:11:40 PM
Toluene	ND	1.0	r	ng/Kg	20	2/28/2013 12:11:40 PM
Ethylbenzene	ND	1.0	r	ng/Kg	20	2/28/2013 12:11:40 PM
Xylenes, Total	5.6	2.0	r	ng/Kg	20	2/28/2013 12:11:40 PM
Surr: 4-Bromofluorobenzene	114	80-120	9	%REC	20	2/28/2013 12:11:40 PM

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- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits 1 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302916

01-Mar-13

Client:

Animas Environmental Services

5.6

Project:

Surr: DNOP

CoP SJ 28-7 #268

Sample ID MB-6278	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: PBS	Batch	n ID: 62	78	F	RunNo: 8	891				
Prep Date: 2/28/2013	Analysis D	Date: 2 /	28/2013	\$	SeqNo: 2	54152	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	72.4	120			
Sample ID LCS-6278	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Batch	n ID: 62	78	F	RunNo: 8	891				
Prep Date: 2/28/2013	Analysis D)ate: 2/	28/2013	\$	SeqNo: 2	54153	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	47.4	122			

112

72.4

120

5.000

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302916

01-Mar-13

Client:

Animas Environmental Services

Project:

CoP SJ 28-7 #268

Project: CoP SJ	28-7#268										
Sample ID MB-6270	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: R8894	RunNo: 8894									
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254504	Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	DLimit Qual							
Gasoline Range Organics (GRO)	ND 5.0										
Surr: BFB	1100 1000	106 84	116								
Sample ID LCS-6270	SampType: LCS	TestCode: EPA Method	d 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: R8894	RunNo: 8894									
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254505	Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPI	DLimit Qual							
Gasoline Range Organics (GRO)	32 5.0 25.00	0 129 62.6	136								
Surr: BFB	1400 1000	138 84	116	S							
Sample ID MB-6270	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range								
Client ID: PBS	Batch ID: 6270	RunNo: 8894									
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254526	Units: %REC								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPI	DLimit Qual							
Surr: BFB	1100 1000	106 84	116								
Sample ID LCS-6270	SampType: LCS TestCode: EPA Method 8015B: Gasoline Range										
Client ID: LCSS	Batch ID: 6270	RunNo: 8894									
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254527	Units: %REC								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPI	DLimit Qual							
Surr: BFB	1400 1000	138 84	116	S							

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302916

01-Mar-13

Client:

Animas Environmental Services

Project:	CoP SJ 28	8-7 #268						<u>.</u>						
Sample ID	MB-6270	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8021B: Volatiles								
Client ID:	PBS	Batch	ID: 62	70	F	RunNo: 8								
Prep Date:	2/27/2013	Analysis Date: 2/28/2013			SeqNo: 254558			Units: %RE						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		105	80	120						
Sample ID	LCS-6270	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	LCSS	Batch	ID: 62	70	F	RunNo: 8	894							
Prep Date:	2/27/2013	Analysis D	ate: 2/	28/2013	S	SeqNo: 254559			Units: %REC					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Brom	nofluorobenzene	1.2		1.000		115	80	120						
Sample ID	nple ID 1302914-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles													
Client ID:	BatchQC	Batch	ID: R8	894	F	RunNo: 8								
Prep Date:		Analysis D	ate: 2/	28/2013	SeqNo: 254599			Units: mg/k						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	· · · · · · · · · · · · · · · · · · ·	0.51	0.050	0.5368	0	94.1	67.2	113						
Toluene		0.50	0.050	0.5368	0	93.5	62.1	116						
Ethylbenzene		0.51	0.050	0.5368	0	94.3	67.9	127						
Xylenes, Total		1.5	0.10	1.610	. 0	95.5	60.6	134		·				
Surr: 4-Brom	nofluorobenzene	0.61		0.5368		113	80	120						
Sample ID	1302914-001AMSE	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	BatchQC	Batch	ID: R8	894	F	RunNo: 8894								
Prep Date:		Analysis Date: 2/28/2013			SeqNo: 254600			Units: mg/k	K g					
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.50	0.050	0.5368	0	92.5	67.2	113	1.74	14.3				
Derizerie														
Toluene		0.49	0.050	0.5368	0	91.6	62.1	116	1.98	15.9				
		0.49 0.50	0.050 0.050	0.5368 0.5368	0 0	91.6 92.5	62.1 67.9	116 127	1.98 1.89	15.9 14.4				

Qualifiers:

0.46

0.5368

P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

86.1

80

120

R RPD outside accepted recovery limits

0

^{*} Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1302916 Received by/date: Logged By: Michelle Garcia 2/28/2013 9:59:00 AM Completed By: 2/28/2013 10:14:20 AM Michelle Garcia Reviewed By: 02/28/2013 Chain of Custody Yes No 🗆 Not Present 1 Were seals intact? Yes 🔽 No 🗌 Not Present 2 Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In Yes 🗹 No 🗌 NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes 🗹 No 🗌 NA 🖂 5. Was an attempt made to cool the samples? Yes 🗹 No 🗌 NA 🗆 6 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No □ 7 Sample(s) in proper container(s)? Yes 🗸 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 9 Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes 🗌 No 🗹 10. Was preservative added to bottles? Yes ☐ No ☐ No VOA Vials ☑ 11. VOA vials have zero headspace? Yes 🗌 No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗌 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 🗆 (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 Adjusted? 15. Is it clear what analyses were requested? Yes 🗸 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes 🗌 No 🔲 NA 🔽 17 Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 18 Additional remarks: 19 Cooler Information Temp °C | Condition Seal Intact | Seal No Signed By Good

Client: Animas Environmental Services Mailing Address: 624 E. Comanche			Turn-Around Time: Standard Rush Sameday Project Name: CoP SJ 28-7#268 Project #:										AER	7 1 1 1	•				· 🗪 🗉 ·	,	
							HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com														
							4901 Hawkins NE - Albuquerque, NM 87109														
							Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
email o	r Fax#:			Project Manager:				nly)	ହ) (⊅							\int
QA/QC Package: Standard		D. Watson				(Gas only)	DRG/144RD)			SIMS)		PO ₄ ,S(PCB's								
Accredi				Sampler:	2w / A	R		PH	(e)	=	\Rightarrow	8270		10 ₂	3082						
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	(Type)			Sample Tem	perature:		曲	TBE	$^{\circ}$		B	0 or	etal	N,C	cide	Æ	j-V		-		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO T	BTEX + WIFE	BTEX + MTBE	TPH 8015E	TPH (Method	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				
2/27	0850	Seil	sc-le	NeoH	Meath	-O01	X	- 3	X			<u></u>		7	3	3	0		+	+	+
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Date	Time	Dollmariah		Received by:		Date Time								L	<u> </u>						
Date: 2/27/13 Date:	Time: 1708 Time:	Relinquish Relinquish	onh Water	Received by:	e Welle	2/27//3 1708 Date Time	Ren	3 ill 15 92 201	1 to 1215 123	Ce 30	nc	xoŦ	hil	hip vse rde	ns h ned	CGA by:	IRE En	ÚÅ Sn	ncied	ł	
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ì	f necessary	samples sub	mitted to Hall Environmental may be subd	contracted to other a	credited laberatorie	s. This serves as notice of this	possi	oility.	Any su	р-соц	tracted	d data	will be	clear	ly nota	ited or	the a	nalytical	report	:-	